ABSTRACT

A device for a passive module of optical communication includes a first housing made of material with low coefficient of thermal expansion, and a second housing made of material with negative coefficient of thermal expansion. A longitudinal receiving recess is defined at the first housing for receiving the second housing, thereby effectively and accurately restraining shift of reflective central wavelength of a fiber Bragg grating (FBG) under variation of environment temperature during working. Also, A tunable mechanism including an elastic recess is formed with the first housing and a tunable member which can tune the width of the elastic recess through pressing the first housing, thereby independently switching reflective central wavelength of the FBG at desire.